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File: USPT

Jul 23, 2002

DOCUMENT-IDENTIFIER: US 6423347 B1

TITLE: Method and product using sturgeon notochord for alleviating the symptoms of arthritis

Brief Summary Text (21):

EP0254289B1 by Koepff, et al., discloses the treatment of arthritis through the administration of enzymatically hydrolyzed collagen from animal skins, animal bones, refined connective tissue or gelatin (Type I collagen) having an average molecular weight of from 10 to 80 KD.

Detailed Description Text (50):

On Days -10, -7, -5 and -2 prior to immunization, mice were sensitized by one of three test compositions; bovine serum albumin (BSA, a tolerogenically inert protein in CIA), cod skin gelatin, or sturgeon notochord. Bovine serum albumin (a protein derived from non-connective tissue) and cod skin gelatin (a protein derived from another connective tissue containing Type I collagen of a fish) served as negative controls. Sturgeon notochord was obtained from farm raised sturgeon and pulverized in liquid nitrogen. The level of each test composition was equilibrated to a 300 .mu.g protein dose based on protein (including collagen) content. Test articles were dissolved/suspended in 0.01 M acetic acid and 0.3 ml was administered per dose to each mouse with a ball tipped feeding needle.

Detailed Description Text (57):

On Days -10, -7, -5 and -2 prior to immunization, mice were sensitized by one of three test samples: 1) vehicle; 2) cod skin gelatin; and 3) sturgeon notochord. Cod skin gelatin (Type I collagen) was used as a negative control. Sturgeon notochord was obtained from farm-raised sturgeon and pulverized in liquid nitrogen as previously described. The level of each test composition was equilibrated to a 300 .mu.g collagen per dose. Test compositions were dissolved/suspended in 0.01 M acetic acid and 0.3 ml was administered to each mouse with a ball tipped feeding needle.